

12. A crystalline maltitol composition, comprising essentially maltitol crystals according to claim 11 and having a maltitol content greater than or equal to 87% and a maltotriitol content by weight of dry matter, lower than 1%.

13. ^{The} A crystalline maltitol composition according to claim 12 having a maltitol content greater than or equal to 92 %.

14. ^{The} A crystalline maltitol composition according to claim 12 having a maltitol content greater than or equal to 96 %.

15. A manufacturing process of a composition in accordance with claim 12, comprising the following steps :

- liquefaction of a starch slurry,
- saccharification of the slurry to obtain a maltose hydrolysate containing 87 % by weight of maltose,
- filtration and de-mineralisation of the maltose hydrolysate,
- hydrogenation of the maltose hydrolysate to obtain a maltitol syrup having a maltitol content greater than or equal to 87% and a maltotriitol content lower than 1% by weight of dry matter,
- crystallization of the syrup and separation of the formed maltitol crystals.

16. ^{The} A manufacturing process according to claim 15, wherein the maltitol syrup has a maltitol content greater than or equal to 92 %.

17. ^{The} A manufacturing process according to claim 15, wherein the maltitol syrup has a maltitol content greater than or equal to 96 %.

18. Modified maltitol crystals, being prismatic in form, ending in plane faces constituting a tetrahedron, and being 100 to 400 μm long and about 20 to 100 μm wide.

19. A crystalline maltitol composition, comprising essentially maltitol crystals according to claim 18 and having a maltitol content greater than or equal to 87% and a maltotriitol content greater than or equal to 4%.

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20. ^{The} A crystalline maltitol composition according to claim 19 having a maltitol content greater than or equal to 92 %.

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21. ^{The} A crystalline maltitol composition according to claim 19 having a maltitol content greater than or equal to 96 %.

22. A manufacturing process of a composition in accordance with claim 19, comprising the following steps :

- liquefaction of a starch slurry,
- saccharification of the slurry to obtain a maltose hydrolysate containing 87 % by weight of maltose,
- filtration and de-mineralisation of the maltose hydrolysate,
- hydrogenation of the maltose hydrolysate to obtain a maltitol syrup having a maltitol content greater than or equal to 87% and a maltotriitol content greater than or equal to 4% by weight of dry matter,
- crystallization of the syrup and separation of the formed maltitol crystals.

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23. ^{The} A manufacturing process according to claim 22, wherein the maltitol syrup has a maltitol content greater than or equal to 92 %.

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24. ^{The} A manufacturing process according to claim 22, wherein the maltitol syrup has a maltitol content greater than or equal to 96 %.

25. A crystalline maltitol composition, comprising maltitol crystals being bipyramidal in form comprising two regular tetrahedrons juxtaposed by their square section base with sides of 50 to 500 μm approximately, thus constituting regular octahedrons with edge length of approximately 50 to

500 μm , and comprising modified maltitol crystals being prismatic in form, ending in plane faces constituting a tetrahedron, and being 100 to 400 μm long and about 20 to 100 μm wide, and having a maltitol content greater than or equal to 87% and a maltotriitol content, by weight of dry matter, of between 1 and 4%.

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26. ^{The} A crystalline maltitol composition according to claim 25 having a maltitol content greater than or equal to 92 %.

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27. ^{The} A crystalline maltitol composition according to claim 25 having a maltitol content greater than or equal to 96 %.

28. A manufacturing process of a composition in accordance with claim 25, comprising the following steps :

- liquefaction of a starch slurry,
- saccharification of the slurry to obtain a maltose hydrolysate containing 87 % by weight of maltose,
- filtration and de-mineralisation of the maltose hydrolysate,
- hydrogenation of the maltose hydrolysate to obtain a maltitol syrup having a maltitol content greater than or equal to 87% and a maltotriitol content, by weight of dry matter, of between 1 and 4%,
- crystallization of the syrup and separation of the formed maltitol crystals.

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29. ^{The} A manufacturing process according to claim 28, wherein the maltitol syrup has a maltitol content greater than or equal to 92 %.

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30. ^{The} A manufacturing process according to claim 28, wherein the maltitol syrup has a maltitol content greater than or equal to 96 %.

31. A process for determining bipyramidal or prismatic crystalline form or a mix of the two forms in a crystalline